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ACN 109 200 900

AUSTRALIAN SECURITIES EXCHANGE ANNOUNCEMENT

12 October 2017

EDENCRETE® - US SALES and MARKETING UPDATE

HIGHLIGHTS

- Follow-up order in Georgia to supply approx. US\$35,000 worth of EdenCrete® in replacement of 3,400 square metres of concrete hardstand area that is subject to heavy-duty wear and abrasion.
- US\$100,000 order for first GDOT Repair Project for 2017/2018 to be issued.
- Third tanker load of EdenCrete® worth approx. \$100,000 ordered for Texas.
- Several projects with MARTA under consideration.
- EdenCrete® trial for a bridge project with Virginia DOT under discussion.

DETAILS

Follow-up Order in Georgia

Eden Innovations Limited (“Eden”) (ASX: EDE) has received a follow-up order for 1,400 gallons (5,500 litres) of EdenCrete® to be used in concrete at a plant in Georgia, to replace approximately 4,100 square yards (3,428m²) of concrete hardstand area that is subject to significant wear and abrasion.

This follows the successful performance of EdenCrete® enriched concrete in an earlier project undertaken in 2016 (see announcement ASX: EDE 18 April 2016) and an earlier field trial undertaken in September 2015.

The project, at a major regional maintenance facility in Georgia for a large US company where very heavy steel components from a national transport fleet are repaired and maintained, will take a month to complete and involve replacement of approximately 700 cubic yards of concrete to which US\$35,000 of EdenCrete® will be added at 2 gallons/yard³ of concrete (9.055 litres/m³).

The first concrete section that was replaced in April 2016 was exposed to extreme rolling loads, impact loads and abrasive wear (see **Figure 1 below**), with a loading of up to 40,000 pounds per square yard that usually severely cracked the concrete and required frequent replacement. The new, far greater area of concrete that is now to be replaced, will not be exposed to such a heavy loading, but will still be exposed to significant rolling loads, impact loads and abrasive wear.



Figure 1. View of site showing very high loading of heavy steel parts

The first project in April 2016 involved replacing three concrete slabs using EdenCrete® enriched concrete, in an area over which loaded trucks, fork lifts and front-end loaders frequently travel to access the section of the yard where the replacement parts are stored (see **Figure 1 above**). These sections were excavated as closely to 150mm (6 inches) as possible, but there were sections where it was as deep as 225mm (9 inches) but there was no preparation of the sub-base before the new concrete was poured (see **Figure 2 below**).



Figure 2. Partially poured slab showing minimal sub-base preparation

To manage the variable depth, which normally requires a flat, compacted sub-base to be installed, more EdenCrete® enriched concrete was simply used to fill the deeper sections of the hole instead of spending time and money on sub-base preparation. As a result it was not necessary to order aggregate or compaction equipment to prepare the sub-base, and a little extra concrete was simply added to the concrete truck that delivered the concrete.

The outcome of using EdenCrete® on this first project was a 45% reduction in the total costs compared with the budgeted cost of carrying out the same work using a new ultra-high strength mix design. This alternative mix would have involved a 12 inch (300mm) thick concrete slab incorporating half inch (12.5mm) diameter steel rebar, supported by a six inch (150mm) compacted crushed aggregate sub-base, that had been designed to deliver a five year service life.

The decision to halve the dosage rate of EdenCrete® to 2 gallons per cubic yard of concrete in the new project, compared with 4 gallons per cubic yard of concrete used in the first project, is considered a very strong testimony to the level of improvement that EdenCrete® delivered in the first project.

GDOT – First Repair Order for 2017/2018 Advised

Eden has been advised that the first GDOT contract for a full depth slab replacement project in the current financial year (which will include the addition of EdenCrete® as previously announced (see **Eden Announcement ASX: EDE 30 June 2017**) has been issued and that Eden will receive a purchase order for approximately US\$100,000 of EdenCrete® for this project in the immediate future for this project that is scheduled to start in approximately 3 weeks.

Third tanker load of EdenCrete® ordered for Texas

A third tanker load of EdenCrete® has been ordered by the major pre-stressed concrete manufacturer in Texas for use in concrete used in the production of large pre-stressed concrete bridge beams for TxDOT projects, bringing the total value of EdenCrete® that has now been purchased since April 2017, to more than US\$300,000 (see **Eden announcement ASX: EDE 11 April 2017**). Due to recent flooding in Texas resulting from Hurricane Harvey, there was some interruption in the production schedule, but this is now largely resolved and production is back to normal.

Projects with MARTA under consideration

Following a recent technical presentation to the senior engineering staff at the Metropolitan Atlanta Rapid Transit Authority (MARTA) of the benefits delivered by EdenCrete® including a review of the project undertaken in July 2016 with MARTA at the Brady Mobility Centre (see **Eden announcement ASX: EDE 18 July 2016**), a number of possible forthcoming MARTA projects are being considered by MARTA in which EdenCrete® may be used.

Atlanta, the sixth fastest growing metropolitan area in the US, has a current population of more than 7 million people that is expected to grow to 8 million by 2020.

MARTA is the primary public transport operator in Atlanta and operates a network of bus routes that link to a rapid transit system consisting of 48 miles (77 km) of rail track with 38 train stations. It carries, in total, over 430,000 passengers per day, the sixth largest number of any US city. To cater for this growth, a number of alternatives for expansion are being considered, all of

which could generate significant opportunities for the use of EdenCrete®. Apart from new projects that are being considered, MARTA also undertakes a considerable amount of annual maintenance.

The broad level of interest that has been shown by the MARTA engineering staff in the benefits that EdenCrete® can deliver, is very encouraging and it is hoped that this interest will translate into a number of projects over the next six to twelve months.

EdenCrete® trial in bridge project with Virginia DOT under discussion

A trial of EdenCrete® in concrete to be used in a bridge project in Virginia is being discussed, following a favourable response to recent presentation by Eden to senior personnel at Virginia DOT (VDOT). EdenCrete® is already included on the VDOT Approved Products List (see **Eden announcement ASX: EDE 3 April 2017**) and this development opens up the prospect of a third DOT (after Georgia and Texas) trialling EdenCrete® in the reasonably near future.

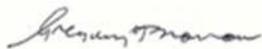
SUMMARY

Eden is continuing to make encouraging progress, and expand both the EdenCrete® sales volumes and its market presence, in the huge US infrastructure and concrete markets.

BACKGROUND

EdenCrete® is Eden's 100% owned, proprietary carbon-strengthened concrete additive, that enhances a wide range of performance characteristics of the concrete including compressive strength, flexural strength, tensile strength, abrasion resistance, reduced permeability and reduced shrinkage, thereby delivering stronger, tougher, more durable and longer lasting concrete.

One of the primary target markets for EdenCrete® is improving the performance of concrete used in the construction and maintenance of concrete roads, bridges and other infrastructure, particularly where it is subject to heavy wear, freeze/thaw weather conditions and/or high levels of added salt. Additionally, it has potential for use in most other concrete applications including high-rise building construction, marine and coastal applications, water storage and pipelines, hardstand areas, and pre-stressed and pre-cast concrete structures and products.



Gregory H. Solomon
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